

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Computer Programmer/Analyst
Associate in Business Degree

Curriculum Code: 0113 (Effective Fall 2015 – Summer 2020)

Programmer/analysts plan, develop, test, and document computer programs at the request of a specific user, applying knowledge of programming, project management, testing, and quality assurance techniques and computer systems. They may evaluate user requests to determine feasibility, cost, and time required, as well as compatibility with current system and computer capabilities. In addition, they read manuals, periodicals, and technical reports to develop programs that meet user requirements and to remain current with developments and standards in the information technology industry. They formulate a plan outlining steps required to develop programs and convert project specifications into program source instructions which are entered into the computer system and tested. They may write documentation and the user manual. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor before enrolling in any course.

PREREQUISITES

Students should see [Course Descriptions](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

INFORMATION

Contact the Computer Information Technologies Program, West Campus Building, Room M103, telephone number (517) 267-6406 (Website: www.lcc.edu/cit/programming/) or Academic Advising Department, Gannon Building – StarZone, telephone number (517) 483-1904.

REQUIREMENTS

TOTAL: 35 CREDITS

CODE	TITLE	CREDIT HOURS
BUSN 118	Introduction to Business	3
CITD 120	SQL Concepts	2
CITF 110	Intro Computer Info Systems	3
CITF 240	IT Project Management	3
CITF 260	Systems Analysis and Design	4
CITP 110	Intro to Computer Programming	4
CITP 130	Intro to Mobile App Devel	3
CITP 140	Software Testing	3
CITP 190	Intro to Programming in JAVA	4

CITW 150	Internet Literacy	3
CITW 160	Web Site Dsgn & Development I	3

LIMITED CHOICE REQUIREMENTS

TOTAL: 30-36 CREDITS

Complete the indicated number of credits from **EACH CHOICE** listed below.

CHOICE 1: [General Education Core Areas](#) 16-22 Credits

(Click the link above for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area	3-4
Global Perspectives and Diversity Core Area	3-4
Mathematics Core Area	3-5
Science Core Area	4-5
Writing Core Area	3-4

CHOICE 2: Intro Programming (Choose one) 4 Credits

CITP 150	Intro to VB.NET Programming	4
CITP 180	Intro to C#.NET Programming	4

CHOICE 3: Advanced Programming (Choose one) 4 Credits

CITP 230	Mobile App Devel for Android	4
CITP 250	Advanced VB.NET Programming	4
CITP 280	Advanced C#.NET Programming	4
CITP 290	Adv JAVA Programming for Busn	4

CHOICE 4: Additional Computer Classes (See Note 1) 6 Credits

CITD 250	Database Concepts	3
CITF 140	Information Technology Ethics	3
CITN 120	Networking Concepts	3
CITP 229	Special Topics in Programming	.25-6
CITP 235	Mobile App Devel for Apple	4
CITP 240	Advanced Software Testing	3
CITP 295	Programming Internship	3
CITW 165	Web Site Dsgn & Development II	3
CITW 180	ASP.NET Web Development	4
CITW 185	PHP Web Development	4

MINIMUM TOTAL 65

NOTES:

1. Additional course(s) from “CHOICE 2” and/or “CHOICE 3” may be used for “CHOICE 4”.
2. For graduation from this program, a student must have earned a minimum 2.0 grade in each course with a CIT_ prefix.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor for help with adjustments.

I	II	III	IV
BUSN 118	CITD 120	CITF 240	CITF 260
CITF 110	CITP 130	CITP 140	Lim.Ch.1
CITP 110	CITW 160	CITP 190	Lim.Ch.1
CITW 150	Lim.Ch.1	Lim.Ch.1	Lim.Ch.3
Lim.Ch.1	Lim.Ch.2	Lim.Ch.4	Lim.Ch.4